

a3 cont human *nmb* protein sequence, as shown in Figure 2B. On the protein level, the sequences of rat osteoactivin and human *nmb* are 69% identical.

Please insert the Sequence Listing information (copy enclosed) after the last page of the specification.

REMARKS

This Amendment and Response does not introduce new subject matter as support is found in the application as filed.

No fees are believed to be due in connection with this correspondence. However, please charge any payments due or credit any overpayments to our Deposit Account No. 08-0219.

Respectfully submitted,
HALE AND DORR LLP
Colleen Superko
Colleen Superko
Reg. No. 39,850

Dated: January 7, 2002
HALE AND DORR LLP
60 State Street
Boston, MA 02109
Tel.: (617) 526-6564
Fax: (617) 526-5000



09/943,075 . 012902

Attorney Docket No. PFI-015
U.S.S.N. 09/943,075

MARKED-UP VERSION OF REPLACEMENT PARAGRAPHS IN SPECIFICATION UNDER 37 C.F.R. §1.121(b)(1)

On Page 18, paragraph at line 2-8:

Figure 1A is a schematic representation of the nucleotide sequence (**SEQ ID NO: 1**) and corresponding amino acid sequence of rat osteoactivin and its predicted amino acid sequence (**SEQ ID NO: 2**) (beginning with the methionine at nucleotide 115) shown in single letter format below the DNA sequence. Solid black lines between nucleotides 217 to 267 and 1768 to 1818 underline the peptides to which the antisera were raised for immunohistochemical localization and Western blot analysis of osteoactivin expression.

On page 18, paragraphs at lines 13-17:

Figure 2A is a schematic representation of the alignments of the open reading frame nucleotide sequences of rat osteoactivin (**SEQ ID NO: 1**), mouse *nmb* (**SEQ ID NO: 7**, and human *nmb* (**SEQ ID NO: 8**).

Figure 2B is a schematic representation of the alignment of the predicted amino acid sequences of rat osteoactivin (**SEQ ID NO: 2**), mouse *nmb*, (**SEQ ID NO: 5**) and human *nmb* (**SEQ ID NO: 6**).

On page 46, paragraph at lines 3-8:

In Figures 2A and 2B, the nucleotide (**SEQ ID NOS: 1, 7, and 8**) and predicted amino acid sequences, (**SEQ ID NOS: 2, 5, and 6**) respectively, of rat osteoactivin and human and mouse *nmb* were compared. Figure 2A reveals that there is a 76% sequence identity in the nucleotide sequences between rat and human. The predicted protein sequence of rat osteoactivin has a proline serine-rich 14 amino acid insertion beginning at residue 333 that is not present in the human *nmb*

09/43075 .012902
Attorney Docket No. PFI-015
U.S.S.N. 09/943,075

protein sequence, as shown in Figure 2B. On the protein level, the sequences of rat osteoactivn and human *nmb* are 69% identical.